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## NOTICE OF ALLOWANCE AND FEE(S) DUE

5514 7590 01/27/2009

FITZPATRICK CELLA HARPER & SCINTO  
30 ROCKEFELLER PLAZA  
NEW YORK, NY 10112

EXAMINER

SERRAO, RANODHI N

ART UNIT

PAPER NUMBER

2441

DATE MAILED: 01/27/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/729,008

12/08/2003

Fumiaki Itoh

03560.003431.

9138

TITLE OF INVENTION: ADDRESS RESTRICTION METHOD, ADDRESS RESTRICTION PROGRAM, AND ADDRESS RESTRICTION APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/27/2009

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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5514 7590 01/27/2009  
**FITZPATRICK CELLA HARPER & SCINTO**  
30 ROCKEFELLER PLAZA  
NEW YORK, NY 10112

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(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/729,008 12/08/2003 Fumiaki Itoh 03560.003431. 9138

TITLE OF INVENTION: ADDRESS RESTRICTION METHOD, ADDRESS RESTRICTION PROGRAM, AND ADDRESS RESTRICTION APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional NO \$1510 \$300 \$0 \$1810 04/27/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
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SERRAO, RANODHI N 2441 709-245000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_  
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_  
3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
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- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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Date \_\_\_\_\_

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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EXAMINER

SERRAO, RANODHI N

ART UNIT

PAPER NUMBER

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## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1065 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1065 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/729,008	ITOH ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	RANODHI N. SERRAO	2441	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 19 November 2008.
2. ☒ The allowed claim(s) is/are 1-12.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
|---|---|

/William C. Vaughn, Jr./  
Supervisory Patent Examiner, Art Unit 2444

***Interview Summary***

1. A proposed amendment was submitted for applicant's consideration. Examiner suggested Applicant to amend claims as shown in the Examiner's Amendment below in order to place the application in condition for allowance.

***Examiner's Amendment***

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. Authorization for this examiner's amendment was given in a telephone interview with the Applicant's Representative, Ed Kmett (Reg. No. 42,746) on 19 November 2008.

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**IN THE CLAIMS**

Please amend claims as shown below and cancel claim 13:

1. (Currently Amended) An address restriction method executed by an address restriction apparatus on a network, comprising the steps of:

obtaining, from a message received from a transmission source device, a tentative network address generated by the transmission source device which is connected to the network, and a local address unique to the transmission source

device;

a first determining step of determining whether the obtained tentative network address is a network address which is within an address range determined according to a predetermined rule and has been generated from the obtained local address unique to the transmission source device;

a second determining step of determining whether the obtained tentative network address matches an address of a connection means which connects the address restriction apparatus to the network;

in a case where the first determining step determines that the tentative network address is the network address which is not within the address range determined according to the predetermined rule, sending a message to the transmission source device forbidding the use of the obtained tentative network address;

in a case where the first determining step determines that the tentative network address is the network address which is within the address range determined according to the predetermined rule and has been generated from the obtained local address unique to the transmission source device, permitting the transmission source device to use the tentative network address for performing communication on the network; and

in a case where the first determining step determines that the tentative network address is the network address which is within the address range determined according to the predetermined rule but has not been generated from the obtained

local address unique to the transmission source device, sending a message to the transmission source device forbidding the use of the obtained tentative network address; and

in a case where the second determining step determines that the obtained tentative network address matches the address of the connection means, sending the message to the transmission source device forbidding the use of the obtained tentative network address.

2. (Currently Amended) [An] The address restriction method according to Claim 1, wherein said first determining step determines whether the obtained tentative network address includes predetermined data.

3. (Currently Amended) [An] The address restriction method according to Claim 1, wherein said obtaining step obtains a MAC address of a network interface provided for the transmission source device, as the local address unique to the transmission source device.

4. (Currently Amended) [An] The address restriction method according to Claim 1, wherein said sending step sends a message indicating that the tentative network address has a collision.

5. (Currently Amended) A computer-readable storage medium on which

is stored an address restriction program executed by an address restriction apparatus on a network, the program comprising the steps of:

obtaining, from a message received from a transmission source device, a tentative network address generated by the transmission source device which is connected to the network, and a local address unique to the transmission source device;

a first determining step of determining whether the obtained tentative network address is a network address which is within an address range determined according to a predetermined rule and has been generated from the obtained local address unique to the transmission source device;

a second determining step of determining whether the obtained tentative network address matches an address of a connection means which connects the address restriction apparatus to the network;

in a case where the first determining step determines that the tentative network address is the network address which is not within the address range determined according to the predetermined rule, sending a message to the transmission source device forbidding the use of the obtained tentative network address;

in a case where the first determining step determines that the tentative network address is the network address which is within the address range determined according to the predetermined rule and has been generated from the obtained local address unique to the transmission source device, permitting the



transmission source device to use the tentative network address for performing communication on the network; ~~and~~

in a case where the first determining step determines that the tentative network address is the network address which is within the address range determined according to the predetermined rule but has not been generated from the obtained local address unique to the transmission source device, sending a message to the transmission source device forbidding the use of the obtained tentative network address; and

in a case where the second determining step determines that the obtained tentative network address matches the address of the connection means, sending the message to the transmission source device forbidding the use of the obtained tentative network address.

6. (Currently Amended) [A] The computer-readable storage medium according to Claim 5, wherein said first determining step determines whether the tentative network obtained address includes predetermined data.

7. (Currently Amended) [A] The computer-readable storage medium according to Claim 5, wherein said obtaining step obtains a MAC address of a network interface provided for the transmission source device, as the local address unique to the transmission source device.

8. (Currently Amended) [A] The computer-readable storage medium according to Claim 5, wherein said sending step sends a message indicating that the tentative network address has a collision.

9. (Currently Amended) An address restriction apparatus connected to a network, wherein said address restriction apparatus includes a processor and a memory unit, comprising:

connection means for connecting the apparatus to the network and for obtaining, from a message received from a transmission source device, a tentative network address generated by the transmission source device which is connected to the network, and a local address unique to the transmission source device;

determination means for performing a first determination of determining whether the obtained tentative network address is a network address which is within an address range determined according to a predetermined rule and has been generated from the obtained local address unique to the transmission source device, and a second determination of determining whether the obtained tentative network address matches an address of the connection means;

wherein, in a case where the first determination by the determination means determines that the tentative network address is the network address which is not within the address range determined according to the predetermined rule, said

connection means sends a message to the transmission source device forbidding the use of the obtained tentative network address;

in a case where the first determination by the determination means determines that the tentative network address is the network address which is within the address range determined according to the predetermined rule and has been generated from the obtained local address unique to the transmission source device, the connection means permits the transmission source device to use the tentative network address for performing communication on the network; ~~and~~

in a case where the first determination by the determination means determines that the tentative network address is the network address which is within the address range determined according to the predetermined rule but has not been generated from the obtained local address unique to the transmission source device, said connection means sends a message to the transmission source device forbidding the use of the obtained tentative network address; and

in a case where the second determination by the determination means determines that the obtained tentative network address matches the address of the connection means, said connection means sends the message to the transmission source device forbidding the use of the obtained tentative network address.

10. (Currently Amended) [An] The address restriction apparatus according to Claim 9, wherein in the first determination, said determination means determines

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whether the obtained tentative network address includes predetermined data.

11. (Currently Amended) [An] The address restriction apparatus according to Claim 9, wherein said connection means obtains a MAC address of a network interface provided for the transmission source device, as the local address unique to the transmission source device.

12. (Currently Amended) [An] The address restriction apparatus according to Claim 9, wherein said connection means sends a message indicating that the obtained tentative network address has a collision.

13. to 16. (Canceled)

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***Allowable Subject Matter***

4. Claims 1-12 are allowed. The following is an examiner's statement of reasons for allowance: In interpreting the claims, in light of the specification, the Examiner finds the claimed invention to be patentably distinct from the prior art of record.

5. For the purposes of statutory subject matter, the examiner interprets the claim language of "a computer-readable storage medium" in independent claim 5 to be hardware as defined in the application's specification on page 24, lines 9-12 which state, "As recording media for supplying the program code, floppy disks, hard disks,

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optical disks, magneto-optical disks, CD-ROMS, CD-Rs, magnetic tapes, non-volatile memory cards, and others can be used in addition to ROMs.”

6. **Sawada et al. (2002/0016858)** teaches a packet communications apparatus of the present invention essentially comprises a plurality of network interfaces (NIFs), a learned address table, a packet forwarding unit (PFU) and a processor for directive packets to change state (PDPCS). The learned address table contains information for identifying a NIF through which to send a packet. The PFU selects a port through which to forward a packet by referring to the learned address table, according to the state of the NIFs, and forwards or discards a packet received from a user terminal. The PDPCS receives a packet including a directive to change the state of a specific NIF to one of the connected state, disconnected state and stateless. The PDPCS changes the state of the specific NIF to one of the connected state, disconnected state and stateless, according to the directive in the packet (**Sawada, abstract, figure 5, and corresponding text**).

7. **Ala-Laurila et al. (6,704,789)** teaches the invention is a method of providing a user (12) a terminal network address (14) in a first network (16) through which the user communicates with a data network (18) and authenticating connection of the user to the first network. The invention includes transmitting to at least one server in the first network a request to obtain the terminal network address in the first network to provide connection of the user to the data network and an identification of the user in a second network (20) through which the user communicates to the first network; transmitting the identification of the user to the second network; transmitting from the second network to

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the first network authentication information of the user stored in the second network associated with the identification of the user; transmitting from the first network to the user at least one advertisement of the terminal network address and information within the authentication information; and processing the received at least one advertisement and the received information within the authentication information and determining if the authentication information is correct **(Ala-Laurila, abstract, figure 5, and corresponding text).**

8. However, the prior art of record fail to teach or suggest individually or in combination the claimed limitations of independent claims 1, 5, and 9, in a case where the second determining step determines that the obtained tentative network address matches the address of the connection means, sending the message to the transmission source device forbidding the use of the obtained tentative network address, correlating to page 13, paragraph 39 of applicant's specification which states, "When the PC 105 sends a request multi-cast inquiring a collision with this tentative address 403, since the fifth and fourth bytes from the LSB of the tentative address are "fffe" and the MAC address recovered from the tentative address 403 differs from the MAC address of the PC 105, which is the transmission source of the request multi-cast, the router 103 transmits a collision message. Therefore, the PC 105 does not use this tentative address 403."

9. These limitations, in conjunction with the other limitations in the independent claims 1, 5, and 9 are not specifically disclosed or remotely suggested in the prior art of record. Therefore, claims 1-12 are allowed.

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10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ranodhi Serrao whose telephone number is (571) 272-7967. The examiner can normally be reached on 8:00-4:30pm, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on (571) 272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/R. N. S./

Examiner, Art Unit 2441

01/07/2009

/William C. Vaughn, Jr./

Supervisory Patent Examiner, Art Unit 2444